



ENVIRONMENTAL CONSULTANTS

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**Crawford Station MGP Site  
Chicago, Illinois**

**Weekly Field Progress Report**

Report Date: September 4, 2012

Prepared By: Natural Resource Technology, Inc.  
Ronald J. Horan, PG  
Timothy B. Norris, PG  
John M. Nardozzi, PE

Submitted To: Integrys Business Support, LLC  
Naren M. Prasad, PE

Activity Period: August 19, 2012 through August 25, 2012

The following summarizes the environmental field activities performed by NRT on behalf of IBS at the former Crawford Station MGP site Time Critical Removal Action (AOC V-W-11-C-981):

<b>Tasks</b>	<b>Environmental Activities</b>
General Description of Work Performed	<p>The following activities were conducted:</p> <ul style="list-style-type: none"><li>• Tecnica continues to backfill and compact Area S, the Potential Removal Area (PRA) south of Area S, Area U, and Area TA. Tecnica has initiated backfill operations in the PRA north of Area A.</li><li>• Tecnica excavated in Area T, and the PRA south of Areas T and TA. The PRA south of Areas T and TA was also extended 10 ft. to the south due to visually impacted soils, but some areas may be restricted to less than 10 ft. due to the close proximity of the high pressure gas lines.</li><li>• Cabeno Environmental Services was on-site on 8/23/2012 to perform additional exploratory borings in the vicinity of the high pressure gas pipelines to determine the extent of impacted soil in the vicinity.</li><li>• Tecnica loaded out amended soil on 8/20/2012 and 8/21/2012, which passed landfill acceptance criteria.</li><li>• Rusmar foam, paired with an odor mitigation system along the western fence line, was utilized daily to mitigate odors. Woodchips were also utilized as needed for additional odor control.</li><li>• Utilized GPS to locate pertinent items and features.</li></ul>

<b>Tasks</b>	<b>Environmental Activities</b>
General Description of Work Performed (cont.)	<ul style="list-style-type: none"> <li>Excavated soils were loaded and transported to Waste Management's Laraway Road RDF landfill for disposal. A total of 7,261 tons of material was disposed of at the landfill bringing the overall project total to 268,127 tons.</li> <li>NRT conducted air monitoring activities for PM<sub>10</sub> through the use of DustTraks, 12-hour time-weighted samples for BTEX and Naphthalene through the use of SUMMAs, and real time VOC concentrations using PIDs. Additionally, no odor/dust issues were noted at the perimeter of the site.</li> </ul>
Sampling Activities Performed:	<p>NRT conducted the following sampling activities:</p> <ul style="list-style-type: none"> <li>DustTraks collected particulate data each day and data has been downloaded for analysis.</li> <li>Eight post-excavation floor samples were collected. Five samples were collected at 14' bgs from Area T and the PRA south of Areas T and TA (EB-157, EB-158, EB-159, EB-160, and EB-161). Three samples were taken at 4' bgs in Area W (EB-162, EB-163, and EB-164). These samples will be analyzed for constituents listed in the RAWP for post-excavation.</li> <li>Nine post-excavation wall samples were collected. One sample was collected on the south wall of the PRA south of Areas T and TA (EW-42) and eight samples (EW-43, EW-44, EW-45, EW-46, EW-47, EW-48, EW-49, and EW-50) were taken from Area W. These samples will be analyzed for constituents listed in the RAWP for post-excavation.</li> <li>Three SUMMA canisters were deployed on 8/22/12 and sent to TestAmerica Laboratory for BTEX and naphthalene analysis.</li> <li>The monthly wastewater sample was collected on 8/20/2012 and submitted to EMT for analysis of MWRD required constituents. Additionally, three wastewater samples were collected to test whether GAC filters were still providing adequate filtration.</li> </ul>
NRT Field Personnel	Ron Horan, Vince Giuliani, and Tim Norris
Equipment Deployed:	SUMMA Canisters DustTraks PIDs Multi-gas meter
Field Photos	See attached sheets

Additional site activities:

Water is being pumped from the open excavations as needed. Water is sent through the Water Treatment System and discharged into the City of Chicago sewer for discharge into the MWRD system.

North Shore Environmental was on-site to locate natural gas pipelines and their orientations.





Representatives from the USEPA and Peoples Gas were on-site on 8/23/2012 to tour the site, as well as discuss upcoming Parcel L activities.

Work planned for the coming week, August 26, 2012 through September 1, 2012, is as follows:

- Provide oversight for the continuing excavation of Area T and the PRA south of Areas TA and T.
- Take additional floor and wall samples in Area T and the PRA south of Areas TA and T as they become available.
- Conduct full scale air monitoring consisting of one 12-hour SUMMA can sampling event per week. The days of the 12-hour sampling will be determined to coincide with excavation activities.
- Receive and review post-excavation confirmation, post-amendment, and air sampling data from TestAmerica.

A weekly field progress report will continued to be issued throughout the duration of field activities for this Time Critical Removal Action. A written report summarizing the results and findings of the Removal Action will be provided following completion of all field activities.

A summary of the construction activities as detailed by the Construction Manager have been included with this report as Attachment 1.

Please feel free to contact us if you have any questions.

Sincerely,

NATURAL RESOURCE TECHNOLOGY, INC.

A handwritten signature in black ink, appearing to read 'Tim Norris'.

Timothy B. Norris, PG  
Geologist

A handwritten signature in black ink, appearing to read 'John M. Nardozi'.

John M. Nardozi, P.E.  
Principal Engineer

Attachment 1: Burns and McDonnell Construction Management Report

## Field Photos:



Photo 1: Backfilling activities in Area U.

Direction: Facing east.

Photo Date: 8/20/2012

Photo Taken By: RJH



Photo 2: Scraping the floor prior to backfilling the PRA north of Area A.

Direction: Facing northeast.

Photo Date: 8/21/2012

Photo Taken By: RJH



Photo 3: Truck loading and foaming the PRA south of Areas T and TA.

Direction: Facing north.

Photo Date: 8/21/2012

Photo Taken By: RJH

**Field Photos (continued):**



Photo 4: Amended soils stockpiled on the Amendment Pad prior to removal.

Direction: Facing east.

Photo Date: 8/22/2012

Photo Taken By: RJH



Photo 5: Truck loading near the PRA south of Areas T and TA.

Direction: Facing west.

Photo Date: 8/24/2012

Photo Taken By: RJH



Photo 6: PRA south of Areas T and TA excavation.

Direction: Facing northwest.

Photo Date: 8/24/2012

Photo Taken By: RJH





1431 Opus Place, Suite 400  
Downers Grove, Illinois 60515

Week of: 8/19/12 to 8/25/12

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**Subject: Site Remediation – Construction Management  
Peoples Gas – Former Crawford Station**

**Burns & McDonnell Personnel Onsite**

Site Construction Manager

- Bal Berena

Site Remediation Supervisor

- Bernard Gill

Construction Manager

- Dave D'Armond

Others

- Chance Duensing

**Subcontractors Onsite**

- Tecnica Environmental Services
- Interra
- North Shore Environmental
- Allied Measurement Systems
- Midwest Fence

Others

- Natural Resource Technology (NRT)
- Waste Management (WM) Dave Weber and Vito Pesoli (MT)

**Miscellaneous Visitors**

- Raj Patel (Interra)
- Ross del Rosario and Brad Bradley (USEPA)
- Joseph Ridgway (NRT)

**Integrus Peoples Gas Personnel Onsite**

- Naren Prasad
- Alonzo Foster, Alberto Jara

**Site Activities**

**BURNS & MCDONNELL**

- Managed site activities with Tecnica Environmental Services, North Shore Environmental, Allied Measurement Systems, and Interra;
- Escorted Interra and USEPA personnel during their site visit;
- Pumped and discharged 69,036 gallons of treated excavation water to MWRD;
- Issued truck tracking forms for all excavated soils from Areas south of T and TA;
- Tracked 388 loads (7,260.99 tons) for Direct soils disposal at Laraway Landfill;
- Received 637 loads of CA-6 (14,423.42 tons) and 15 loads of CA-1 (338.99 tons) for backfill in Areas north of A, U and TA;
- Received 1 load of FA-2 sand (21.14 tons) for backfill around 42" high pressure line in Area W;
- Participated in daily subcontractor pre-task analysis safety meetings on site;

- Conducted periodic health and safety air monitoring in excavation area with no significant PID readings from the site activities;
- Held the weekly site construction meeting with Supervisors of Subcontractors, Waste Management; and
- Monitored site conditions for traffic, dust, odors, and overall safety.

#### **TECNICA ENVIRONMENTAL SERVICES**

- Excavated and loaded out soils from Areas south of T (Potential area);
- Controlled odors through foaming (20 drums used) and wood chips;
- Actively suppressed dust on site through watering and haul road maintenance;
- Operated and maintained truck scale;
- Assisted BMcD in waste water treatment and misting system operation and maintenance;
- Continuously monitored site fencing, silt fence, and erosion control materials;
- Performed routine maintenance on decon pad, tracking pad, and haul roads;
- Continued breaking concrete generated from potential area south of T; and
- Continued backfill in Areas north of A, U, and TA.

#### **NORTH SHORE ENVIRONMENTAL**

- Performed hydro excavation to determine depth and locations of high pressure lines on site for later pipe excavation.

#### **ALLIED MEASUREMENT SYSTEMS**

- Performed schedule monthly truck scale calibration and maintenance.

#### **INTERRA**

- Performed compaction tests on CA-6 during backfill of Areas north of A, U, and TA.

#### **MIDWEST FENCE**

- Completed repairs to blown-down sections of the 12-foot high fence.

#### **Changes to Scope of Work**

- Continued support for PGL pipe excavation currently on hold. Regular meetings with Peoples Gas Operations are taking place to plan future remediation around the high pressure gas pipes.
- Additional excavation south of Area TA and T due to visual source material outside the original scope.

#### **Open/Outstanding Items**

- Start date for 24-inch HP pipe excavation and removal.

#### **Anticipated Activities for the Week of AUGUST 26, 2012**

- Continue backfilling Areas south of TA, U and north of A;
- Continue backfilling of Area W;
- Excavate and load out soils in areas south of TA, and T; and
- Continue to operate and maintain misting system.



**Crawford Station Site:**

**Remediation**

Date: August 22, 2012

Description: Looking down, North Shore continued hydro-excitation to determine depth and locations of high pressure lines on site for later pipe excavation.



**Crawford Station Site:**

**Remediation**

Date: August 21, 2012

Description: Looking northeast from Area A, Tecnica started backfilling Area north of A. 5 bags of ORC was placed in the north side wall of excavation before backfill activity started as required by NRT.





**Crawford Station Site:**

**Remediation**

Date: August 22, 2012

Description: View from area AA looking northwest, Tecnica reused clean CA-6 from the northern half of Overburden Stockpile pad to add to backfill in excavations.



**Crawford Station Site:**

**Remediation**

Date: August 24, 2012

Description: Looking east, repair of the blown down portions of 12-foot high fence completed by Midwest Fence. Additional bracing system not implemented.